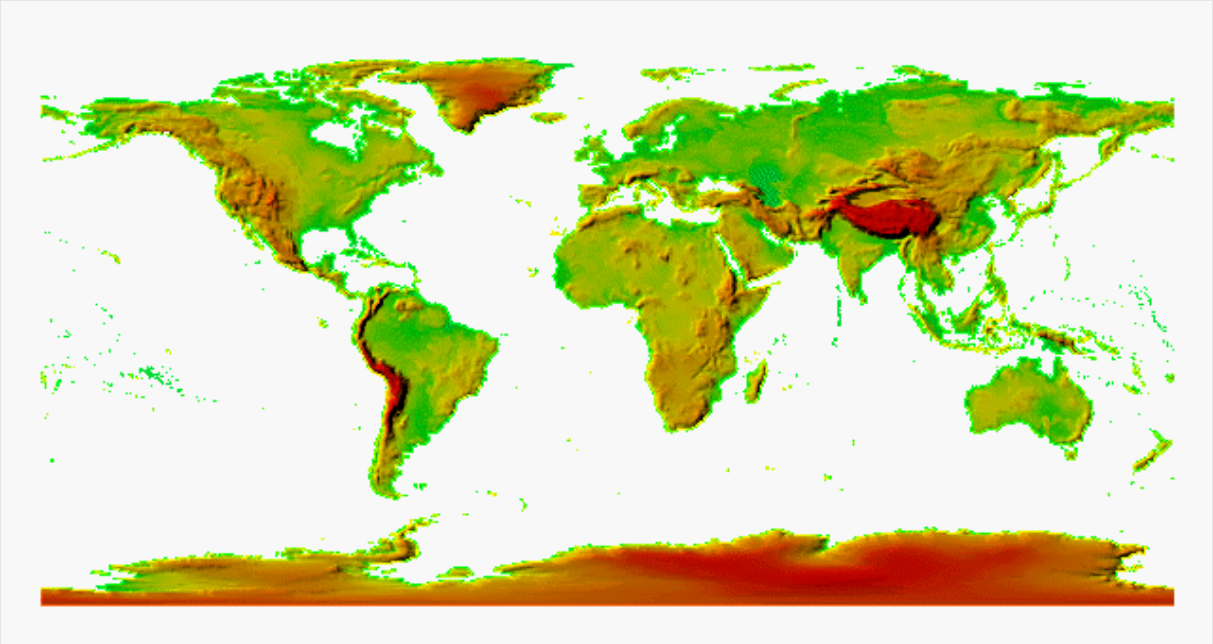
APOLLO AirMap Terrain

AddOn für APOLLO AirMap



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Introduction

APOLLO AirMap Terrain is an AddOn for APOLLO AirMapX Plus and APOLLO AirMap GlobalXplorer Plus. APOLLO AirMap Terrain is a altitude radar which overlays the distance to the ground as a colored representation on the AirMap charts. APOLLO AirMap Terrain can be installed to every Microsoft Flight Simulator Aircraft under the following conditions:

IBM PC mit einem Pentium III 1 Ghz oder höher
1 GByte Memory (2 GByte recommended)
2 GByte free hardisk space (depends on number of installed regions)
Windows2000, Windows XP or Windows Vista
DirectX Version 7.0 or higher
DVD drive
FS2004 or FSX
Apollo AirMapX Plus, Apollo AirMap GlobalXplorer Plus or any AirMap chart product

Apollo AirMap Terrain consists of 5 packages:

- Europe
- Northamerica
- Southamerica
- Africa
- Asia/Oceania

Apollo AirMap Terrain can be used worldwide if it is used together with Apollo AirMap GlobalXplorer Plus or Apollo AirMapX Plus. If it is used together with any AirMap chart product the terrain overly can be displayed only at regions which are covered by the AirMap chart product. The resolution of the terrain data is about 90 m in latitude range between +60° and – 60°. Above +60° and below -60° the accuracy is about 1000 m.

Installation / Uninstallation

To install the program Apollo_AirMap_Terrain_XX.exe must be executed. XX is a placeholder. XX=EU (Europe, America), or World).

The data of APOLLO AirMap Terrain must be installed into the same subdirectory where AirMap or AirMap GlobalXplorer Plus are already installed. Normally the install program will find this path and you don't have to care about it.

Depending on your choice of packages you can select the regions, you want to install. This is a possibility to save disk space.

If you install only some regions you can install the remaining regions afterwards be executing the installation program Apollo_AirMap_Terrain.exe.

To uninstall the program you have to execute again Apollo_AirMap_Terrain_XX.exe.

User Interface

After APOLLO AirMap Terrain has been installed the Terrain Radar can be activated by selection of the "MAP"- pushbutton at the G500 panel. This will show up the MAP-softkeys.

The Terrain Radar can be activated/deactivated by pressing the Terrain-softkey.

The Terrain Radar has 3 different MAP-modes. In MAP1 mode the terrain will be displayed with 3 colors. The meaning of the colors are explained by a legend at the left of the screen. Terrain in red will reach from -100 feet to the highest point of the terrain. Terrain in yellow will reach from -1000 feet to -100 feet below the aircraft. Terrain in black will reach from -2000 feet to -1000 feet below the aircraft and terrain below -2000 feet will not be colored.

Depending on the relative height of the aircraft above the local terrain the color of the terrain will permanently be changed.

The transparency of the terrain overlay can be continuously adjusted by the "Transparency"-switch at the instrument panel oft the G500+.

In MAP2 mode the terrain will be displayed with colors. The meaning of the colors are explained by a legend at the left of the screen.

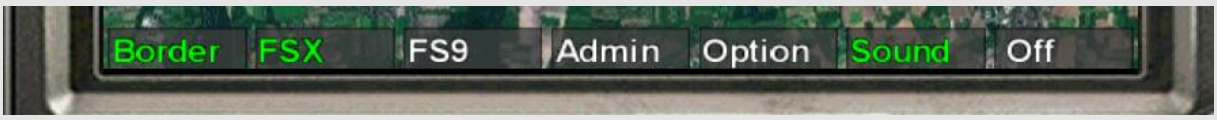
Terrain in red will reach from 1000 feet above the aircraft up to the highest point of the terrain. Terrain in yellow will reach from -500 feet below the aircraft up to 1000 feet above the aircraft. Terrain in dark green will reach from -1000 feet to -500 feet below the aircraft. Terrain in light green will reach from -2000 feet up to -1000 feet below the aircraft and terrain -2000 feet below the aircraft will not be colored.

Depending on the relative height of the aircraft above the local terrain the color of the terrain will permanently be changed.

The transparency of the terrain overlay can be continuously adjusted by the "Transparency"-switch at the instrument panel oft the G500+.

In MAP3 mode the terrain will be colored according to its absolute height. This means that the color will **not** change with aircraft height.

The configuration dialog of the terrain options are displayed after selection of the "Option"-Softkey and



activation of the "Terrain"-Softkey::

The terrain configuration softkeys are described as follows:

:

<---: Back to the next higher softkey level.

TAWS: Softkey TAWS toggles the TAWS mode (green/white for active/inactive). This key has the same functionality like the Softkey "Terrain" of the "Map"-Softkeys.

MAP1: Activation of this softkey toggles between the Terrain modes **MAP1**, **MAP2**, **MAP3** . In each mode a different terrain display will be shown. A green lettering of this key shows the actiivation state.

Path: This Softkey activates the extended TAWS mode (green if active). In this mode the terrain display depends on the actual radaraltitude, the horizontal speed, and the vertical speed. The terrain color will be calculated from the altitude which will the aircraft will have when it will be at the corresponding position, e.g. the sink/climb rate and speed will be taken into account.

Enroute: This Softkey toggles between the states **Departure**, **Enroute** und **Arrival**. These states have define which alerts will be triggered within the TAWS system. If the lettering of this key is yello then the flight phase will be automatically determined (this may be wrong). By pressing this key the user can select the flight phase by himself (green lettering).

CLR: This Softkey can be used to clear any active TAWS alert. If a TAWS alert is triggered the terrain Softkeys will be automatically displayed.

--->: Display next Softkey sublevel.

<---: to the next higher Softkey level.

Trans: Toggles the transparency of the terrain overlay (green = active, white = incactive).

Legend: Show/Hide the altitude caption.

Elev.: Show/Hide the value of the highest obstacle in feet.

Std.: The value of the highest obstacle in feet within a rectangle of 30 x 30 minutes will be displayed if the lettering is green. If the lettering is white the highest value within the nearest rectangle of 7,5 x 7,5 minutes will be displayed.

TAWS

TAWS is an acronym for Terrain Alert and Warning System.

The TAWS will be active under following conditions:

- excessive decent rate
- premature descent caution
- negative climb rate
- terrain avoidence

The excessive decent rate alert depends on decent rate and current radaraltitude.

The premature descent caution alert depends on the flight phase (approach) and the distance to the airport.

The negative climb rate alert is only active during departure flight phase.

The terrain avoidence alert depends on flight phase (departure, enroute, approach). In general the alert will be triggered about 1 minute before touching the ground if the current horizontal and vertical speed will be maintained..

AirMap.ini File

In the subdirectory **System** within the install directory of AirMap (normally located at **..Apollo\AirMap\System**) the file AirMap.ini can be found after installation. This file contains parameter which can be manually edited:

[Terrain]
Color1=0,240,11
Color2=49,152,97
Color3=255,255,148
Color4=254,0,1
Color5=125,1,0
Blendfactor=0.500000

The parameters Color1 – Color5 define the color used in MAP2 mode. The color of MAP1 and MAP3 mode cannot be changed.

The parameter Blendfactor is the default value for the transparency of the terrain overlay. This value can be altered with the slider at the instrument border.

License Activation

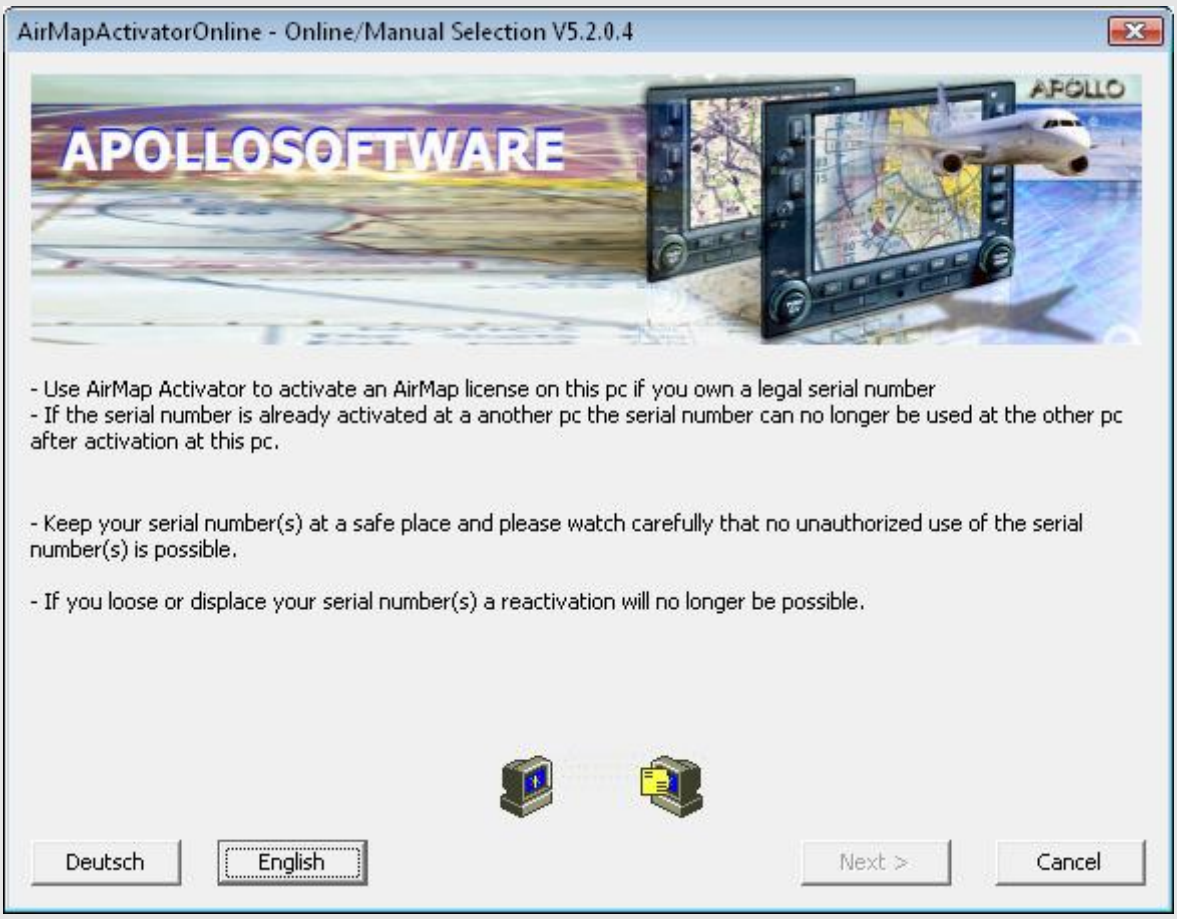
Under the APOLLO AirMap software license agreement you may use the software only on a single pc for which you need a unique activation key. Without activation all functions are available for 7 days. You will remembered to activate every day in this period until you have activated the license. After the trial period AirMap-Terrain stops running if not activated.. If you do not want to activate it is recommended to uninstall the product.
AirMap Terrain requires always an active internet connection. You can at any time change the binding of the license on your computer with the help of the AirMapActivator even if the license get lost by a hardware failure.

Activation

The activation over internet can be done within seconds. AirMapActivater permits the transfer of the license between any PC even if the original license or the PC where the original license was installed ar no longer available. The only condition for this procedure is the knowledge of the serial number of the product. **Therefore the serial productnumber is your personal key and should be kept secret and at a safe place. If an unauthorized person gets knowledge of your serial number he will be able to use your license and the license might be become unusable for you!**

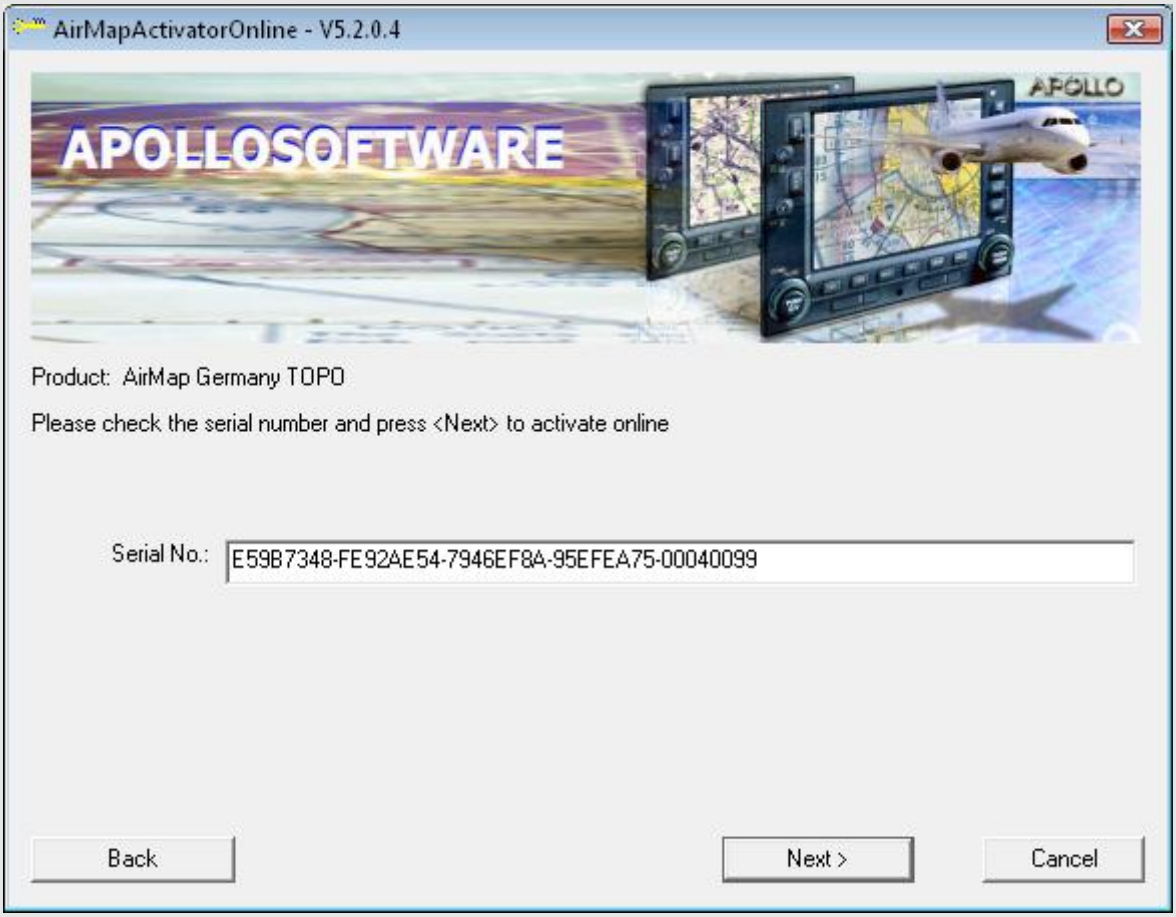
The AirMapActivator will be used to activate the license. The program can be found at the install directory of AirMap under Apollo\AirMap\System. The AirMapActivator can also be found in the Windows "Start"-menu under "Apollosoftware". Within the Flight Simulator the AirMapActivator can be found under the FS menu "Add-Ons" or it can be run by activation of the corresponding softkey within G500+ or G1000+.

After start of AirMapActivator first the internet connection will be checked.


AirMapActivatorOnline - Online/Manual Selection V5.2.0.4
APOLLOSOFTWARE
APOLLO
- Use AirMap Activator to activate an AirMap license on this pc if you own a legal serial number
- If the serial number is already activated at a another pc the serial number can no longer be used at the other pc after activation at this pc.
- Keep your serial number(s) at a safe place and please watch carefully that no unauthorized use of the serial number(s) is possible.
- If you loose or displace your serial number(s) a reactivation will no longer be possible.
Deutsch
English
Next >
Cancel

After activation of the "Next"-button 2 listboxes with inactive (left) and active (right) licenses will be displayed if present:

Only licenses which are not activated can be selected for activation. After selection of a license the button "Activate" can be selected. In the next dialog the serial number of the selected product must be entered. If the serial number has already been entered during the installation of the product the serial number will automatically displayed. In this case it is suggested to check the number.



If the number is correct you can activate the "Next"-button and the activation process will start. If this is the first activation of the license you will get a verification message after a few seconds.

If the serial number has been already activated at this or any other pc you will be asked if you want really to activate the license at this pc. If you answer with yes then the license will be activated at the current pc and the license is no longer active on the pc where it was activated before. This means that the license works similar to a "floating license". It can be used after activation on any pc, but only at the pc where it is currently is activated.

After activation you use the license without any time limit.

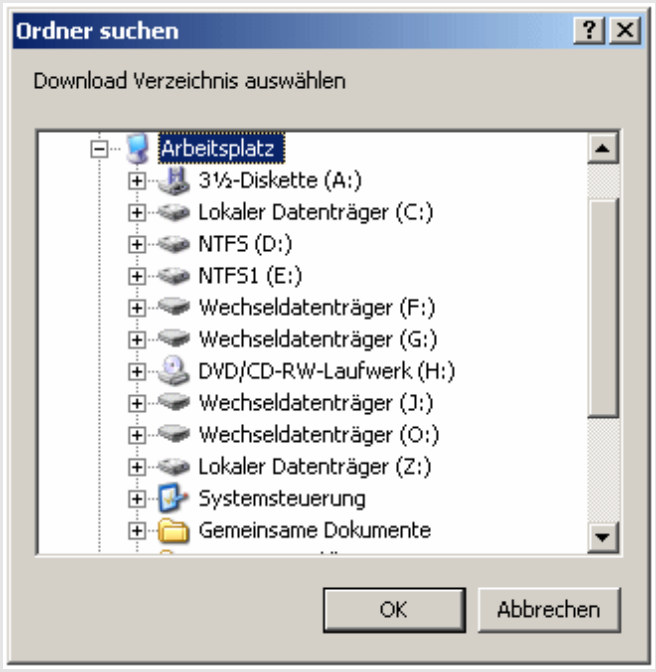
AirMapActivatorOnline - V5.2.0.4
APOLLOSOFTWARE
APOLLO
Produkt: AirMapX for FSX
Seriennummer:
5B5BAB7F-3DB8C356-B4ACF7B5-6397B975-00040026
Aktivierung erfolgreich!
Zurück
Beenden >
Abbrechen

Internet Downloads

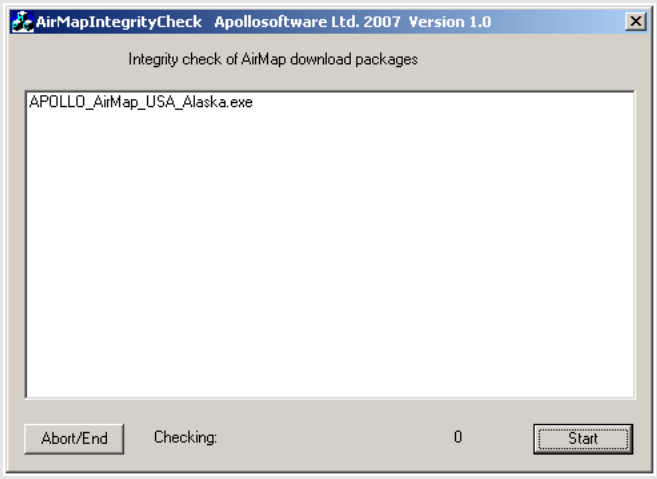
If you have purchased APOLLO AirMap via internet download, we recommend using a download manager like getright from www.getright.com with resume-feature which can resume an unfinished or interrupted download. After the download is complete, you should check the file integrity before installing it using our free tool "**AirMapIntegrityCheck.exe**" which you can download here:

www.apollosoftware.com/products/Airmap/Tools/AirMapIntegrityCheck.exe.

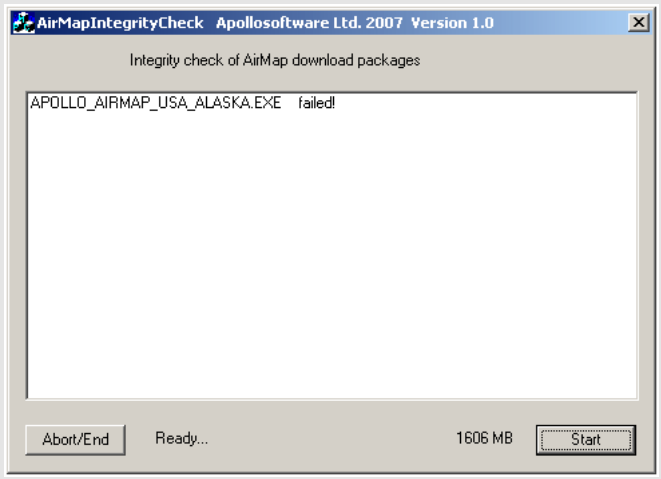
After you start this tool, simply point to the location where you have downloaded the APOLLO AirMap files and click "start" to check the file integrity checksum.



Selection of the download directory



List of files to check for integrity



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File integrity check result

The tool will display all APOLLO AirMap files to be checked. To check the file integrity click the START button. Depending on the files this may take some time. The resulting message will show „OK“ or „failed“ .

Note

Information on new maps, updates, downloads and more information on APOLLO AirMap can be found at the APOLLO website:

http://www.apollosoftware.com

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